ZIERKE SOIL TESTING

David Trombley 10450 217th St N Scandia, MN 55073

September 9th, 2019

Dear David Trombley,

At your request, I have conducted a septic inspection to determine the compliance status of your system pursuant to Minnesota Rules Chapter 7080.1500.

The compliance test set out in 7080.1500 has three main inquiries: 1). Is the system functioning hydraulically (disposing of effluent in a manner that prevents it from coming in contact with people)? 2). Are the septic tanks water tight? 3). Does the system have sufficient vertical separation between the bottom of the septic system and restrictive layers (bedrock, standing water, seasonally wet layers, etc) to provide full treatment of effluent?

Based off of these criteria, your system is <u>non-compliant</u> due to a lack of vertical separation between the bottom of your drain field and indicators of seasonally wet soil (redoximorphic features). Therefore, this system is considered "failing to protect groundwater" and <u>is not considered an imminent threat to public health</u>. I am required to provide copies of this report to you and to your local unit of government. You should contact them as to the next steps that will be required to bring the system into compliance.

Sincerely

Ben Zierke

MPCA Lic 119, Cert 9594

ADDRESS: 28587 Jeffrey Ave Chisago City, MN 55013

PHONE EMAIL

651-249-1346 benzierke@gmail.com



520 Lafayette Road North St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.	For local tracking purposes:
Submit completed form to Local Unit of Government (LUG) and system owne within 15 days	r
System Status	
System status on date (mm/dd/yyyy): 9/9/2019	
 •	mpliant – Notice of Noncompliance rade Requirements on page 3.)
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent three Other Compliance Conditions (Compliance Component #3) – Imminent Tank Integrity (Compliance Component #2) – Failing to protect ground Other Compliance Conditions (Compliance Component #3) – Failing to Soil Separation (Compliance Component #4) – Failing to protect ground Operating permit/monitoring plan requirements (Compliance Component	nt threat to public health and safety water o protect groundwater adwater
December Information	
Property Information Parcel ID# or Sec/Twp/F	
	on for inspection: Sale
Property owner: David Trombley Owne	er's phone:
	esentative phone: 651-491-5839
	latory authority phone: 651-430-6655
Brief system description: 1000 gallon pre cast septic tank, gravity rock trench dr	rainfield
Comments or recommendations:	
Tank and seepage bed installed in 1972. Drainfield added in 1982.	
Certification	
I hereby certify that all the necessary information has been gathered to determine to determination of future system performance has been nor can be made due to unknown possible abuse of the system, inadequate maintenance, or future water usage.	
Inspector name: Benjamin Zierke Certif	fication number: C9594
Business name: Zierke Soil Testing	icense number: _L119
Inspector signature:	Phone number: 651-249-1346
Necessary or Locally Required Attachments	
	nor local ordinance
☑ Soil boring logs☑ System/As-built drawing☐ Other information (list):	per local ordinance

				(mm/dd/yyyy)
1.	Impact on Pu	blic Health – C	ompliance comp	onent #1 of 5
	Compliance crit	teria:		Verification method(s):
	System discharges	s sewage to the	☐ Yes ⊠ No	Searched for surface outlet
10-	ground surface.			Searched for seeping in yard/backup in home
	System discharges tile or surface water		☐ Yes ⊠ No	 ☐ Excessive ponding in soil system/D-boxes ☐ Homeowner testimony (See Comments/Explanation)
25	System causes se	wage backup into	☐ Yes ⊠ No	"Black soil" above soil dispersal system
107	dwelling or establis	shment.		System requires "emergency" pumping
	reconstruction of the second s	swer above indi		☐ Performed dye test
	system is an in health and sai	mminent threat fetv.	to public	Unable to verify (See Comments/Explanation)
-	Comments/Expla			Other methods not listed (See Comments/Explanation)
	Control of the Contro		system. No signs of	ponding or leakage in yard during site visit 9/6/2019.
		-		
2.	Tank Integrity	y – Compliance	component #2 of	5
-	Compliance cris	teria:	T	Verification method(s):
	System consists o		☐ Yes ⊠ No	☐ Probed tank(s) bottom
	cesspool, drywell,			☐ Examined construction records
	compliant if allowed	ig 7080.2550 may be in local ordinance.		Examined Tank Integrity Form (Attach)
	Sewage tank(s) le		☐ Yes ⊠ No	☐ Observed liquid level below operating depth☐ Examined empty (pumped) tanks(s)
	designed operating			Probed outside tank(s) for "black soil"
	If yes, which sewa		ootoo tho	☐ Unable to verify (See Comments/Explanation)
		swer above indi ing to protect gr		☐ Other methods not listed (See Comments/Explanation)
-	Comments/Expla			
	Tank pumped 6/24	4/2019 by Smilies wi	th no issues found.	See attached.
	011 6 1	C 11.1		
3.		ance Condition		
			21 S 4001 S 40	ured, or appear to be structurally unsound. ☐ Yes* ☒ No ☐ Unknown
		electrical hazards, etc.) n imminent threat to		dversely impact public health or safety. ☐ Yes* ☐ No ☐ Unknown safety.
	Explain:			
		-protective of ground		itions as determined by inspector . ☐ Yes* ☒ No
	Explain:			

Property address: 10450 217th St N Scandia, MN 55073

Inspector initials/Date: BZ | 9/9/2019

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Property address: 10450 217th St N Scandia,	MN 55073		Inspector initials/Date:	
				(mm/dd/yyyy)
4. Soil Separation - Compliance co	mponent #4 of 5	8		¥
Date of installation: 7/12/1982	Unknown	Verific	cation method(s):	
(mm/dd/yyyy) Shoreland/Wellhead protection/Food beverage lodging?	☐ Yes ⊠ No	observ unless	servation does not expire. Pro ations by two independent pa site conditions have been alto ements differ.	rties are sufficient,
Compliance criteria:	DVac MNa		nducted soil observation(s) (A	ttach horing logs)
For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead	☐ Yes ⊠ No	50.0 cm 60 24 4 cm 60 4 5 5 6 7	previous verifications (Attach	
Protection Area or not serving a food, beverage or lodging establishment:		<u> </u>	applicable (Holding tank(s), no	
Drainfield has at least a two-foot vertical			able to verify (See Comments/E	
separation distance from periodically saturated soil or bedrock.		☐ Oth	er (See Comments/Explanation)	
Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:	☐ Yes ☐ No	Comm	ents/Explanation:	
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*				
"Experimental", "Other", or "Performance"	☐ Yes ☐ No	Indica	ate depths or elevations	
systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector		***************************************	om of distribution media	97.5'
License required) Drainfield meets the designed vertical		B. Peri	iodically saturated soil/bedrock	98.0'
separation distance from periodically		C. Sys	tem separation	-0.5'
saturated soil or bedrock.			uired compliance separation*	2.0'
Any "no" answer above indicates to failing to protect groundwater.	he system is	*May b Ordin	pe reduced up to 15 percent if ance.	allowed by Local
Operating Permit and Nitroger	BMP* – Compliar	nce com	ponent #5 of 5 🔀 🛚	lot applicable
Is the system operated under an Operating	Permit?	i ☐ No	If "yes", A below is require	red
Is the system required to employ a Nitroge	n BMP?	□ No	If "yes", B below is require	red
BMP = Best Management Practice(s)	specified in the system	design		
If the answer to both questions is "i	no", this section do	es not n	need to be completed.	
Compliance criteria				
a. Operating Permit number:			☐ Yes ☐ No	
Have the Operating Permit requirement	ents been met?		☐ 169 ☐ IAO	
b. Is the required nitrogen BMP in place	and properly functioning	ng?	☐ Yes ☐ No	

Any "no" answer indicates Noncompliance.

Upgrade Requirements (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, repaired, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.

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Logs of Soil Borings

Location of Project:

10450 217th St N Scandia, MN 55073

Borings Made by Ben Zierke

Date:

9/5/2019

Hand bucket auger used for borings; USDA - SCS Soil Classification used.

Depth, in Inches 0	Boring Number 1	Depth, in Inches O	Boring Number 2
0-12"	7.5YR 3/3 sandy loam		
12-24"	7.5YR 4/4 sandy loam		
24-28"	7.5YR 5/4 clay loam, strong redox at 24"		
28-36"	5YR 3/4 Loamy till, strong redox present		
	3 feet		feet
End of boring at Standing water tab Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres Comments:	feet of depth Hours after boring resent in hole X 2 feet of depth	End of boring at Standing water tab Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres Comments:	feet of depth Hours after boring feet of depth Feet of depth
Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4
O	feet	O	feet
End of boring at Standing water tal Present at Standing water not y Mottled Soil: Observed at Mottled soil not pre Comments:	feet of depth Hours after boring feet of depth Feet of depth	End of boring at Standing water tab Present at Standing water not p Mottled Soil: Observed at Mottled soil not pre: Comments:	feet of depth feet of depth feet of depth feet of depth



DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
GOVERNMENT CENTER
14949 62nd STREET NORTH P.O. BOX 6 STILLWATER, MN 55082-0006
Office: 651-430-6655 TTY: 651-430-6246 FAX: 651-430-6730

Subsurface Sewage Treatment System Maintenance Permit

This section must be completed in its entirety to constitute a valid maintenance permit. This permit must be completed prior to performing maintenance activities and remain on-site for the duration of the maintenance activity.

Maintenance Permit	No: 1 2872 K 15427	Maintainer Name ar	d License No. Smil	ie's Sewer Service/L	.2428
Mainter	nance Performed	Tank Meas	urement (must be	completed if tanks	NOT pumped)
✓ Tank(s) Pumped ☐ Sludge and scum Do tanks need to ☐ Yes ☐ No (i		Sludge Level in Sludge + Scum _	/ Liquid L	Scum Level in Tank evel X 100 nks must be pumped)
3. Is there evidence	securely replaced? 🎾 Yes e of tank leakage from a se	ptic, holding, pretr			erating depth or
evidence of dar	maged, cracked, or structur				1
evidence of dar	Tank Septic/Holding Tank #1	Leaking Out	Leaking In	Cover Damage	
evidence of dar	Tank				
evidence of dar	Tank Septic/Holding Tank #1	Leaking Out Yes No	Leaking In Yes No	Cover Damage Yes No	
evidence of dar	Tank Septic/Holding Tank #1 Septic/Holding Tank #2	Leaking Out Yes No Yes No	Leaking In ☐ Yes ☑ No ☐ Yes ☐ No	Cover Damage Yes No Yes No	

License# 2428 P: 651-433-3934

UID#22063